

TARGETER WINGS

KENYA PRIMARY SCHOOL EDUCATION ASSESSMENT

GRADE 6 - YEAR 2024

INTEGRATED SCIENCE



TIME: 1 hour 40 minute

INSTRUCTIONS TO CANDIDATES (Please read these instructions carefully)

1. You have been given this question booklet and a separate answer sheet. The question booklet contains 50 questions.
2. Do any necessary rough work in this booklet.
3. When you have chosen your answer, mark it on the **ANSWER SHEET**, not in this question booklet.

HOW TO USE THE ANSWER SHEET

4. Use an ordinary pencil.
5. Confirm that the answer sheet that you have been provided with has the following:
YOUR ASSESSMENT NUMBER
YOUR NAME
NAME OF YOUR SCHOOL
NAME OF SUBJECT
6. Do not make any marks outside the boxes.
7. Keep the sheet as clean as possible and do not fold it.
8. For each of the questions 1 - 50, four choices are given. The choices are lettered **A, B, C and D**. In each case, only **ONE** of the four choices is correct. Choose the **correct** answer from the choices.
9. On the answer sheet, the correct answer is to be shown by drawing a **dark line** inside the box in which the letter you have chosen is written.

Example

In the Question Booklet:

17. Which of the following plants can **best** grow in a sandy soil?

- A. Rice
- B. Coconut
- C. Maize
- D. Cabbage

The correct answer is **B**.

On the Answer Sheet:

In the set of boxes numbered 17, draw a **dark line** inside the box with the letter **B** printed in it as indicated below.

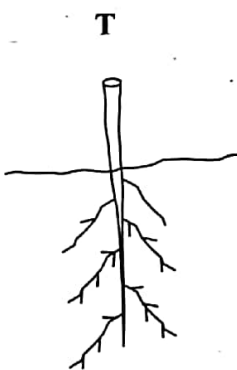
14. [A] [B] [C] [D] 15. [A] [B] [C] [D] 16. [A] [B] [C] [D] 17. [A] [**B**] [C] [D]

10. Your **dark line** **MUST** be within the box.
11. For each question, **ONLY ONE** box is to be marked in each set of four boxes.

This question paper consists of 7 printed pages

INTEGRATED SCIENCE

1. Ciana, a grade 6 learner in Green Cottage primary school, visited her grandmother over the holiday. She saw a cow resting under the shade during a hot afternoon. She remembered what their teacher taught them about characteristics of living things. Which characteristic of living things was displayed by the cow resting under the shade?
 - A. Reproduction
 - B. Feeding
 - C. Removing waste
 - D. Responding to changes in the environment
2. The following are reasons as to why animals move from one place to another. Which one is **not**?
 - A. To search for mate
 - B. Looking for food
 - C. To grow old
 - D. Running away from enemies
3. The following roots were drawn by learners to represent two types of roots T and M. Which of the following pairs of plants is matched to its correct type of root?

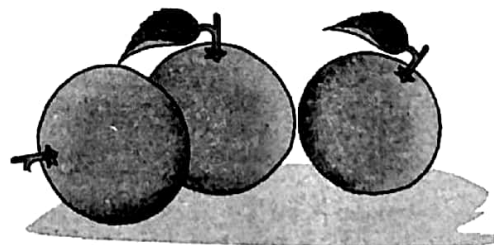


- A. Maize
- B. Beans
- C. Sisal
- D. Sugarcane



- Sugarcane
Maize
Beans
Sisal

4. Grade six learners went for a science nature walk to observe and collect different invertebrates. While in the field one group collected an invertebrate with the following characteristics
 - i. Has simple eyes
 - ii. Has eight legs
 - iii. Has two body parts
 Which of the following invertebrate, did they collect?
 - A. Cockroach
 - B. Millipede
 - C. Tick
 - D. Centipede
5. Teacher Florence a teacher of Science and Technology asked learners to list parts of female reproductive system. The following learners listed the parts
 - i. Denzel – Vagina, Cervix, Fallopian tube, Penis
 - ii. Mwala –Vagina, Uterus, Ovary
 - iii. Grace —Penis ,scrotum ,vagina
 - iv. Cindy —Fallopian tube, penis ,testes
 Who gave the **correct** answer?
 - A. Mwala
 - B. Denzel
 - C. Grace
 - D. Cindy
6. Identify the function of the following part of the plant



- A. Carries food made by the leaves to the roots
- B. Storage of food
- C. Absorption of water and mineral salts
- D. Manufacturing of food

7. A grade 6 learner saw a certain plant with the following features

i. **Shorter than trees**

ii. **Had many thin and woody stems**

iii. **It had thorn like leaves**

Which plant did see?

- A. Shrubs
B. Herbs
C. Grasses
D. Trees
8. A sick person was vomiting, had severe watery diarrhoea and was dehydrated .The person was likely suffering from a disease called
- A. Cholera
B. Typhoid
C. Bilharzia
D. Malaria
9. Learners observed a cloud which appeared low and grey in colour and covered large part of the sky. The cloud observed is **mostly** to be
- A. Cirrus
B. Nimbus
C. Stratus
D. Cumulus
10. During a class discussion, learners suggested ways of controlling water pollution .Which one of the following ways would control water pollution?
- A. Boiling
B. Filtration
C. Avoiding open defecation
D. Chemical treatment
11. The teacher asked four learners to bring each an invertebrate for science lesson
- John** – brought a caterpillar
Peter –brought a lizard
Esther –brought ladybird
Anne - brought millipede

Who did **not** bring an invertebrate?

- A. Peter
B. Esther
C. Anne
D. John

12. Three of the following are safety precautions when handling plants. Which one is **not**?
- A. Wear gloves on your hands
B. Wash hands using soap after handling plants
C. Wear protective gears
D. Walk bare footed
13. A push or a pull on an object is referred to as
- A. weight
B. force
C. energy
D. pressure
14. Which part of a plant absorbs water and supports the plant firmly?
- A. Fruit
B. Flowers
C. Roots
D. Stem
15. Grade Four learners brought the following materials for science lesson.
- i. **Dry piece of stick**
ii. **Nail**
iii. **Metal bottle top**
iv. **Plastic bottle top**
- The material that floated in water but can be made to sink by crushing is
- A. Plastic bottle top
B. Dry piece of stick
C. Metal bottle top
D. Nail

16. A grade five learner was typing using a computer. Which key did she use to create space between two words?
- Space bar key
 - Backspace key
 - Enter key
 - Delete key
17. A person donated a desktop computer to a friend who needed it instead of throwing it away. This is an example of managing solid waste by
- reusing and recycling
 - reusing only
 - reducing only
 - reducing and recycling
18. During a class discussion, learners listed ways of preventing infestation by external parasites. Which one of the following ways prevents infestation by jiggers?
- Not sharing clothes
 - Wearing shoes
 - Soaking clothes in hot water
 - Ironing clothes
19. Grade five learners were doing an experiment on different substances. What happened when they put red litmus paper in ash solution? It turned
- blue
 - yellow
 - grey
 - red
20. Wambora heated cooking fat in a frying pan until it formed liquid. Which process made the cooking fat to change into liquid?
- Freezing
 - Evaporation
 - Melting
 - Sublimation

AGRICULTURE

21. During a nature walk grade 6 learners observed the type of soil erosion shown below.



The type of soil erosion is **best** controlled by:-

- planting cover crops
 - mulching
 - constructing gabbions
 - terracing
22. Grade 5 learners established passion fruit plants during a project in the school farm. When ripe, the colour of passion fruits will be:-
- green
 - purple
 - blue
 - red
23. The removal and carrying away of soil by surface run-off is called:-
- soil deposition
 - soil pollution
 - soil erosion
 - soil recovery
24. Amos, a teacher of Agriculture, asked his learners to state ways of conserving soil moisture in the farm. Which one of the following gardening practices is **correct**?
- Mulching
 - Thinning
 - Weeding
 - Gapping

25. Manure helps to improve soil fertility. We can get manure from all the following **except**

- A. chicken
- B. goats
- C. dogs
- D. cows

25. Learners in grade 6 observed exposed plant roots on a bare flat ground. This is an indication of which type of soil erosion?

- A. Sheet erosion.
- B. Splash erosion.
- C. Rill erosion.
- D. Gully erosion

26. Grade 6 learners listed the following ways of controlling soil erosion. Which one is **not** correct?

- A. Planting cover crops
- B. Mulching.
- C. Terracing
- D. Using drip irrigation

27. Grade four learners were asked by their teacher to state a pair of tiny seeded crops. Which of the following pairs was **correct**?

- A. Maize and beans.
- B. Potatoes and tomatoes.
- C. Pumpkin and calabash.
- D. Kales and carrots.

28. Which of the following materials can **not** be used to establish creeping crops?

- A. Seeds.
- B. Flowers.
- C. Splits.
- D. Cuttings.

29. Grade 6 learners were asked by their teacher to list examples of creeping crops. Who gave a **correct** answer?

- A. Muinde – wheat
- B. Alvin – beans
- C. Hazel – pumpkin
- D. Mary – oranges

30. The following wild animals can be controlled by the use of a fence **except** one. Which one?

- A. Mongoose
- B. Hare
- C. Squirrel
- D. Bird

31. Grade 5 learners were asked by their teacher to describe the process of collecting soil from deposition sites and using it to replace the lost top soil in eroded sites. Which process did they describe?

- A. Soil erosion.
- B. Soil recovery
- C. Soil deposition
- D. Soil fertility

32. Grade 6 learners practised the farming practice shown below.



Which of the following statements is **true** about the structure?

- A. It should be made after transplanting the seedlings
- B. It should be made to prevent water loss and damage of seedlings by sunlight
- C. It does not prevent water loss
- D. It should be constructed before planting the seeds.

33. Which one of the following practices ensures that the farmer remains with manageable healthy seedlings in the nursery bed?
- Gapping
 - Shading
 - Thinning
 - Irrigation
34. Grade 4 learners wanted to remove seedlings from the nursery bed to transplant them. Which tool was the **best** to use?
- Rake
 - Spade
 - Jembe
 - Trowel
35. Which of the following domestic animals provides us with mutton and milk?
- Goat
 - Sheep
 - Cow
 - Donkey

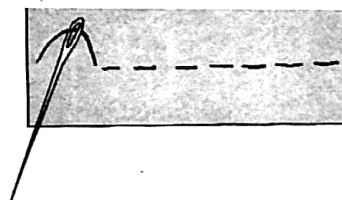
HOMESCIENCE

36. A nutritional deficiency disease has the following signs and symptoms
- Weak bones*
 - Bow legs*
 - Poor development of teeth*
- Which disease is described above?
- Rickets
 - Constipation
 - Anaemia
 - Scurvy

37. Grade 5 learners from Jeremy Academy were discussing various practices that prevent communicable diseases. Which of them was **wrong**?
- Cough in your elbow
 - Use hand sanitizer
 - Wearing face mask
 - Keep your hands dry
38. Which of the following is a reason for cooking food?
- Makes it easy to digest
 - Makes it not last long
 - To harden the food
 - To make it available
39. Nutrients are classified into macro nutrients and micro nutrients. Which of the following is a micro nutrient?
- Protein
 - Mineral
 - Fats
 - Carbohydrates
40. Physical exercises are important for our health. Which of the following is **not** an importance of physical exercise?
- Keeps our lungs strong
 - Helps to increase weight
 - Improves heartbeat
 - Strengthens muscle
41. All the following are equipment used to store cereals and pulse. Which one is **not**?
- Gourds
 - Sacks
 - Polythene bags
 - Pots

42. Which one of the changes below takes place in both preteen boys and girls?
- Hips broaden
 - Increase in weight
 - Voice deepens
 - Breasts enlarge
43. Grade 5 learners are preparing to go for shopping. Mrs Kimani is concerned about the safety. She told them to observe all the following **except**
- buy from one shop only
 - use shopping list
 - check expiry date
 - avoid impulse buying
44. Loice a grade 6 learner was told by her parents to be cleaning utensils immediately after use. Why do you think this is important?
- To make the utensils durable
 - To prevent them from staining
 - To make them shine
 - To make them look dull.
45. Grade 6 learners discussed the importance of mending clothes before washing. Which one of the following statements explains why they should be mended?
- Prevents the clothes from getting discoloured.
 - Makes the clothes look new after washing
 - Prevents further damage to the clothes
 - Retains the original colour of the clothes

46. What is the **main** nutritional benefit when we eat mangoes?
- Vitamins.
 - Fibre
 - Proteins
 - Carbohydrates
47. One of the following diseases is caused by lack of some nutrients in the diet. Which one is it?
- Measles
 - Malaria
 - Diabetes
 - Kwashiorkor
48. Which of the examples of food given below can be cooked through dry fat frying method of cooking?
- Eggs
 - Banana
 - Pork
 - Cabbage
49. Which or the following lists consists of a balanced diet?
- Rice, chicken, chapati.
 - Kales, mangoes, carrots.
 - Pancakes, eggs, kales.
 - Rice, sausages, chicken.
50. Identify the stitch shown in the picture below.



- Chain stitch
- Running stitch
- Hemming stitch
- Loop stitch